9th Class

Time: 3:00 h **PHYSICS (9th) 1st Half Book (L.Q)** **Total Marks:80**

NOTE: Attempt All Questions.

Q#1 (a) Define motion. Explain types of motion with examples.

(b) Prove that: $S = V_i t + \frac{1}{2} at^2$

Q#2 (a) Write the difference b/w mass and weight.

(b) Find the value of "a" and "T" when both bodies move vertically.

Q#3 (a) Prove that rate of change of momentum of a body is equal to the force applied on it.

(b) State and explain the law of conservation of momentum with the help of spheres examples.

Q#4 (a) Write the advantages and disadvantages of friction.

(b) Define centripetal force, derive its equation and give example.

Q#5 (a) Explain states of equilibrium with examples.

(b) Write a detail note on resolution of forces.

Q#6 (a) Explain conditions of equilibrium with examples.

(b) Define and prove second law of motion.

Q#7 (a) Define and explain torque.
(b) Find the mass of the earth.

Q#8 (a) State and explain the Newton's law of gravitation.

(b) Find the orbital speed of a satellite.

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PHYSICS 9TH

PAIRING SCHEME PUNJAB BOARDS 2023

OBJECTIVE MCQ FULL BOOK

Question#1

CH#1	CH#2	CH#3	CH#4	CH#5	CH#6	CH#7	CH#8	CH#9
2	1	1	1	2	1	1	1	2

SUBJECTIVE-I SHORT QUESTIONS

Question #2		Question #3		Question #4	
CH# 1 ,2, 3		CH# 4 ,5, 6		CH# 7 ,8, 9	
CH#	S/Q	CH#	S/Q	CH#	S/Q
1	3	4	2	7	3
2	3	5	3	8	2
3	2	6	3	9	3

SUBJECTIVE-II EXTENSIVE QUESTIONS

Question #5	Question #6	Question #7
CH# 2	CH# 4/5	CH# 7
CH# 3	CH# 6	CH# 8/9

Note: This pairing scheme is 99% confirmed.